

ABSTRACT OF THE DISCLOSURE

The invention relates to an insulation system for pipes, containers, ventilation ducts and like installation parts which have an outer surface temperature which periodically is below the dew point of the ambient air. The insulation system comprises a thermally insulating layer and a vapour barrier arranged on one side of the thermally insulating layer. The insulation system has a hygroscopic material which is arranged between the vapour barrier and the thermally insulating layer, which hygroscopic material is at least partially connected with the vapour barrier. A combination of the vapour barrier and the hygroscopic material is connected with the thermally insulating layer in such a manner that the hygroscopic material partially makes contact with the thermally insulating layer.